

## PATENT SPECIFICATION

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## COMPLETE SPECIFICATION

## Hand Operated Turf Cutter

I, FRANK HARDING, Wythenshawe Hall, Northenden, Manchester, British nationality, do hereby declare the nature of this invention and in what manner  
5 the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention has reference to hand operated turf cutters of the kind having  
10 a rotary turf cutting blade to the side or sides of which a guiding wheel or wheels is or are provided, and has for its object to provide improvements in cutters of this kind whereby greater  
15 steadiness can be obtained in the operation and more certain lines can be cut in the turf.

According to this invention a hand operated turf cutter of the kind referred  
20 to has a circular turf cutting blade mounted in a frame, provided with wheels for running on the turf, and marking blades behind the cutting blade, the wheels forming a carriage,  
25 the frame having a handle whereby it can be pushed and pressed on the turf.

The invention is more particularly set forth with reference to the accompanying drawings in which,

30 Fig. 1 is a side elevation of the turf cutter and,

Fig. 2 is a front elevation.

As shown in the drawings the cutter has a cutting blade 3, mounted on a  
35 spindle 4, mounted in two arms 5, which at the top are attached to a handle post 6, on which are two handles 7 and 8.

On the outside of the arms 5 are two plates 9 each having a long slot 10,  
40 whereby the plate can be adjusted up and down and secured by nuts 11 on the end of the spindle 4. In each slot 10 there is a spindle 12 carrying a wheel 13, the spindle being adjustable up and  
45 down in the slot 10 and secured by the nuts 14 which do not bind on the wheel.

Also mounted on each spindle 12 is an arm 15 having a slot 16, which arms at

their other ends support an axle 17 extending across the cutter behind the  
50 cutting blade 3, which axle carries on its ends wheels 17a and marking or nicking blades 18.

The axle 17 is supported and steadied at its ends by arms 19 having slots 20  
55 in the inside ends, where the arms are bent to lie along the handle post 6, through which and through the slots 20, there passes a screw 21 with a wing nut 22, by which the screw can be tightened  
60 or released.

It will be seen that the two wheels 13 and the wheels 17a with the marking and nicking blades 18, form in effect a  
65 carriage on which the whole device runs and which greatly facilitates the running on a straight line, as the operator does not have to balance or steady the device after it has once been set on the desired  
70 straight line.

When it is desired to use the cutter, the nuts 4 are eased, so that the plates 9 can be raised or lowered, to lift or  
75 depress the ground wheels 13, with reference to the bottom edge of the cutting blade 3 by which means the depth of the cut made by the cutting blade is regulated.

The raising and lowering of the plates 9 also raises or lowers the ends of the  
80 arms 15 and, to adjust the position of the axle 17 so that the wheels 17a will be on the same level as the wheels 13, the arms 15 and 19 may also need adjustment on the spindle 12 and the screw 21.  
85

When the various parts are set, the cutter is pushed along the turf, the handle 8 being used for pushing and the handle 7 for pressing, and, while  
90 running on the turf on the wheels 13 and 17a, the cutting blade 3 cuts into the turf sufficiently deeply to allow the turf to be stripped later, and the marking or nicking blades 18 cut lines in the turf parallel with the cut made by the  
95 cutting blade 3 and in addition assist in

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keeping the cutter on a straight line.

The marking or nicking blades and the wheels 17a are detachable, and may be adjusted within limits on the axle 17, so that the width of the turves cut can be regulated if desired, but as a rule, these are of a standard size.

When one cut has been made, the cutter is lifted to one side and is again pushed along the turf with the cutting blade 3 in one of the cuts or nicks made by one of the marking or nicking blades 18, and this is continued as long as it is desired to cut strips of turf.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is:—

1. A hand operated turf cutter of the kind referred to having a circular turf cutting blade mounted in a frame, provided with wheels for running on the turf and with wheels and marking blades behind the turf cutting blade, the wheels

forming a carriage, the frame having a handle whereby it can be pushed and pressed on the turf.

2. A hand operated turf cutter according to the preceding claim wherein the wheels for running on the turf are adjustable with reference to the centre of the turf cutting blade, whereby the depth of cut can be regulated.

3. A hand operated turf cutter according to either of the preceding claims, having two handles on the handle post whereby, when one hand is used for pushing, the other can be used for pressing the device on to the turf.

4. The hand operated turf cutter constructed and adapted to be operated substantially as set forth and as shown in the accompanying drawings.

Dated this 24th day of June, 1947.

For the Applicant,  
BARLOW, GILLET & PERCIVAL,  
Chartered Patent Agents,  
6, St. Ann's Passage, King Street,  
Manchester, 2.

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[This Drawing is a reproduction of the Original on a reduced scale.]

